Multimode Fiber Optical Patch Cable 50-800µm Core

400nm to 2400nm, up to 200W

We offer multimode patch cables with high-purity silica step-index fibers with a doped light confining cladding layer having a core diameter of 25, 50, 105, 200, 400, 600, and 800 µm, respectively. All our fiber has a doped glass cladding layer that makes the connectors more reliable and lower loss than the plastic coating-based large core fibers. We use high-quality ceramic ferrule connectors specially made to match the fiber diameters on both ends. FC/PC is standard, and other types of connectors with all possible configuration variations are available on special orders. These cables feature Ø3 mm protective jackets. Each patch cable includes two protective caps that shield the ferrule ends from dust contaminants. Moreover, we produce high optical power handling up to 100W optic patch cables with these fibers by fusion the fiber end with a collimating lens (see link). We also uniquely produce ultra-low loss < 0.01dB multimode fiber optic patch cables (see link).

Features

- High Power
- High Polish with >50dB RL
- Ceramic Radiused Ferrules
- 3mm Protective Jacket
- Custom Cable Available

Applications

- Test
- Instrument/System

Specifications [1]

Parameter	Min	Typical	Max	Unit
Wavelength	400		2400	nm
Insertion Loss[1]		0.4	0.5	dB
Core Diameter	50	200	800	µm
Numerical Aperture		0.22		
Return Loss	32			dB
Fiber Type		Pure silica		
Jacket		3mm tube		

[1] Measured at the center wavelength using a laser with CPR<14. The customer can specify the test wavelength and the type of light source used.

Ordering Information (Part Number)

	☐	☐☐	☐	☐	☐	☐	☐	☐
Prefix	**Measured Wavelength ***	**Length**	**Key**	**Power**	**Fiber Cover**	**Fiber**	**Connector1**	**Connector2**
FPMM-	480nm = 4 590nm = 5 650nm = 6 850nm = 8 980nm = 9 1550nm = A 1600nm = B 2000nm = 2	1m = A1 2m = A2 12m = 12 0.5m = 5B 0.25m = 2B Special = 0	Regular = 1 Special = 0	Regular = 1 2W = 2 5W = 5 10W = A 100W = B 200W = C Special = 0	3mm = 1 0.9mm = 2 Special = 0	200 µm = 2 800 µm = 8 400 µm = 4 600 µm = 6 105 µm = 1 50 µm = 5 62 µm = A	FC/PC = 1 SMA = 2 Special = 0	FC/PC = 1 SMA = 2 Special = 0

Fiber Cable Single Mode Red Color indicates special order

* Customer must specify the light source to be used for the test.

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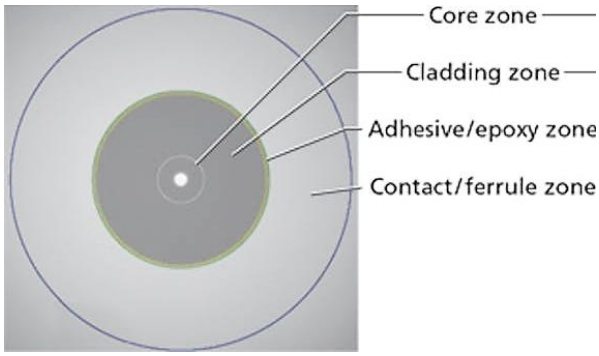
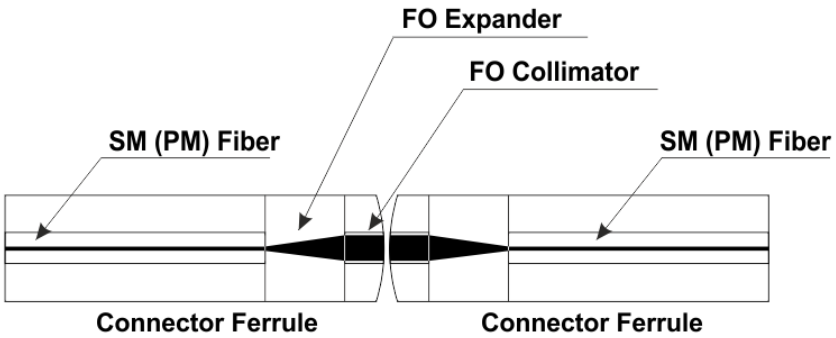
Connector End Face Image



Schematic of High Power Handling Fiber Connector Configuration

We produce high optical power handling connectors by first expanding the beam size and then collimating the beam all inside the fiber without free space elements and optical coating.



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